

ABSTRACT

The present invention provides an Fe-Cr-Al based stainless steel sheet and double layered sheet having a high Al content of greater than 6.5%, honeycomb bodies employing the stainless steel sheet or double layered sheet, and a process for fabrication of the steel sheet or double layered sheet. The sheet is a high Al-containing Fe-Cr-Al based stainless steel sheet or high Al-containing double layered sheet characterized by comprising, by weight, Cr: 10-30% and Al: >6.5%-15%. Preferably, the steel sheet further comprises either or both Ti: 0.02-0.1% and Nb: 0.02-0.3%, and also comprises La: 0.01-0.1%, Ce: 0.01-0.1% and P: 0.01-0.05%. It also preferably comprises Cu: 0.01-1.0% by weight, and preferably further comprises Mg: 0.001-0.1% by weight. There is also provided a honeycomb body fabricated using the Fe-Cr-Al based stainless steel sheet.